

1. Enhanced-surface-area spinal fusion apparatus adapted for use between an upper vertebral body having an inferior vertebral endplate and a lower vertebral body having a superior endplate, the distance between the endplates defining at least one intervertebral spacing, the device comprising:
 - a biocompatible fusion device having a height which is greater than the intervertebral spacing such that when implanted, at least a portion of the device penetrates into one or both of the upper and lower vertebral bodies; and
 - a fastener configured to extend through the device and the vertebral body into which the fusion device extends.
2. The apparatus of claim 1, wherein the fusion device includes an aperture adapted to receive the fastener.
3. The apparatus of claim 1, wherein the fastener is tressed.
4. The apparatus of claim 1, further including a guide for aligning the insertion of the fastener.
5. The apparatus of claim 4, wherein the guide is mountable on the fusion device.

6. The apparatus of claim 4, wherein guide may be used for drilling and
2 installation of the fastener.

7. A method of promoting the fusion between upper and lower vertebra, each
2 vertebra having a body between superior and inferior endplates, the method comprising
the steps of:

4 removing a section of the upper vertebra, the lower vertebra, or both vertebra,
including a portion of its respective endplate;
6 installing the a fusion device between the vertebra so as to substantially consume
the removed sections; and
8 installing a fastener through the through the fusion device and each vertebra into
which the fusion device extends.

8. The method of claim 7, further including the steps of:
2 temporarily installing an alignment guide; and
installing the fastener using the guide.

9. The method of claim 8, wherein the alignment guide is mounted on the
2 fusion device.

10. The method of claim 8, wherein the alignment guide is used for drilling

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2 and orienting the fastener.